

Claims

1. A connection point of a chamber (4) subjected to high pressure in a body (11) subjected to high pressure of a high-pressure injection system for fuel at a bore (12), extending through the body (11), which extends substantially vertically in the body (11), characterized in that in the chamber (4) subjected to high pressure of the body (11), a cylindrically shaped pocket (19) or an encompassing groove (18) is embodied, into which the bore (12) discharges, forming an intersection point (17).
2. The connection point according to claim 1, characterized in that the cylindrically shaped pocket (19) or the encompassing groove (18) is preferably disposed in the bottom region of the chamber (4) subjected to high pressure.
3. The connection point according to claim 1, characterized in that the cylindrically shaped pocket (19) or the encompassing groove (18), with the chamber (4) subjected to high pressure, forms an intersection (23) that is free of excessively elevated stress.
4. The connection point according to claim 1, characterized in that the intersection point (17) acts as a notch effect point, at which reduced stress levels $\sigma_{\max,2}$, $\sigma_{\max,3}$ are established in operation of the body (11) subjected to high pressure.
5. The connection point according to claim 1, characterized in that the encompassing groove (18) is embodied with a curved or angular contour at a constant depth (32) in the body (11).

6. The connection point according to claim 1, characterized in that the cylindrically shaped pocket (19) is embodied as semicircular, curved, or angular in the wall in the body (11) that defines the chamber (4) subjected to high pressure.
7. The connection point according to claim 6, characterized in that the cylindrically shaped pocket (19) has its maximum depth (30) at the orifice of the bore (12).
8. The connection point according to claim 6, characterized in that the cylindrically shaped pocket (19), on both sides of the orifice of the bore (12), has symmetrical ending regions (31) into the bore.
9. The connection point according to claim 1, characterized in that the connection point (17) is embodied, depending on the shape of the groove, as an opening of oval or rectangular geometry.
10. The connection point according to claim 1, characterized in that it is embodied between a differential pressure chamber (4), controlling a pressure amplifier (1), and a control line (12) in the form of a bore that subjects the differential pressure chamber (4) to pressure or relieves it of pressure and that leads to a valve that actuates the pressure amplifier (1).
11. The connection point according to claim 1, characterized in that the control line (12) is embodied as a through bore (12.1) in the high-pressure-carrying body (11).

12. The connection point according to claim 1, characterized in that in the high-pressure-carrying body (11), at least one further bore (33) is connected bound to the encompassing groove (18).